

ABSTRACT OF THE DISCLOSURE

An IgG₁ λ monoclonal antibody to the immunosuppressive drug tacrolimus has improved properties. In particular, this monoclonal antibody, designated 1H6, has reduced cross-reactivity to several tacrolimus metabolites. This antibody is suitable for performance of immunoassays such as homogeneous immunoassays to detect or determine the presence or concentration of tacrolimus in samples such as blood samples. The invention further includes derivatives of tacrolimus derivatized at a non-binding portion of the molecule useful in immunizing antibody-producing animals and in producing such monoclonal antibodies, as well as labeled derivatives of tacrolimus useful as tacrolimus analogues in such assays. The invention further includes immunoassay methods for the detection of tacrolimus and test kits useful in performing such immunoassays.

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